

# Converting Colors

$Y_{xy}(45.1970, 0.3025, 0.4296)$

Have a look what the booklet for  
Yxy(45.1970, 0.3025, 0.4296)  
contains.

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# Color

**Yxy(45.2291, 0.3022, 0.4299)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AC482
RGB	122, 196, 130
RGB Percent	48%, 77%, 51%
CMY	0.5217, 0.2313, 0.4901
CMYK	0.38, 0.00, 0.34, 0.23
HSL	127°, 39%, 62%
HSV	127°, 38%, 77%
XYZ	31.7940, 45.2291, 28.1853
YIQ	166.3500, -22.9180, -36.2140

# Conversions

## Conversions Part 2

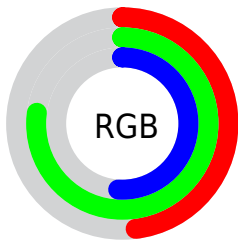
Format	Color
R <sub>YB</sub>	122, 189, 196
Decimal	8045698
CIE <sub>Lab</sub>	73.04, -36.72, 26.06
CIE <sub>LCh</sub>	73, 45.024, 144.636
Yxy	45.2291, 0.3022, 0.4299
Android (android.graphics.Color)	4286235778 (0xFF7AC482)
YUV	166.3500, -17.9205, -38.8949
Hunter-Lab	67.2526, -33.3053, 22.2286

# Details

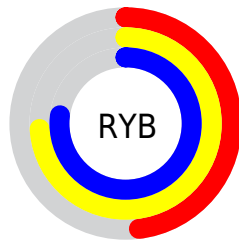
The Yxy color **45.2291, 0.3022, 0.4299** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **29.2772, 0.3254, 0.2456**, and the grayscale version is **38.4074, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.0166, 0.3054, 0.4102**, and **21.1904, 0.2969, 0.4634** is the 20% darker color. If you saturate the color by 10%, you get **43.5119, 0.2998, 0.4622**, and if you desaturate by 10%, it is **47.3182, 0.3049, 0.3994**.

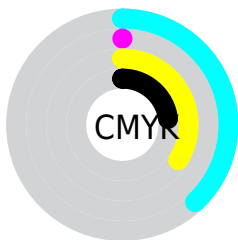
# Distribution



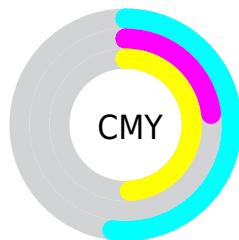
- Red (48%)
- Green (77%)
- Blue (51%)



- Red (48%)
- Yellow (74%)
- Blue (77%)



- Cyan (38%)
- Magenta (0%)
- Yellow (34%)
- Black (23%)




- Cyan (52%)
- Magenta (23%)
- Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2291, 0.3022, 0.4299 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 45.2291, 0.3022, 0.4299 by changing the saturation by 10% instead.





 45.2291, 0.3022,  
0.4299

 45.2291, 0.3022,  
0.4299


367.7006, 0.3091,  
0.3764

 31.6379, 0.2999,  
0.4442


 83.0641, 0.3051,  
0.4097

 21.0851, 0.2965,  
0.4631


 108.0767, 0.3061,  
0.4024

 13.1862, 0.2914,  
0.4892


 137.6652, 0.3068,  
0.3962

 7.5569, 0.2827,  
0.5272

172.2141, 0.3075,  
0.3910

 3.8128, 0.2664,  
0.5866

212.1077, 0.3080,  
0.3866

 1.5694, 0.2327,  
0.7673

257.7303, 0.3084,

 0.3368, 0.0000,

0.3827

1.0000

309.4665, 0.3088,  
0.3794

■ 0.0000, 0.0000,  
0.0000

■ 45.2291, 0.3022,  
0.4299

■ 45.2291, 0.3022,  
0.4299

■ 43.5119, 0.2998,  
0.4622

■ 47.3182, 0.3049,  
0.3994

■ 42.1395, 0.2978,  
0.4949

■ 49.7933, 0.3078,  
0.3714

■ 41.0900, 0.2966,  
0.5261


■ 52.6746, 0.3106,  
0.3464


■ 40.3369, 0.2962,  
0.5536

■ 55.9792, 0.3133,  
0.3243

■ 39.8489, 0.2967,  
0.5753


■ 59.7233, 0.3159,  
0.3052

 39.5822, 0.2978,  
0.5901

 63.9223, 0.3183,  
0.2886

 39.5382, 0.2979,  
0.5925

 67.7899, 0.3174,  
0.2737

 67.9628, 0.3154,  
0.2712

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.2291, 0.3639, 0.4450



45.2291, 0.3022, 0.4299



45.2291, 0.2465, 0.3764

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



45.2291, 0.3022, 0.4299



45.2291, 0.2155, 0.2343



45.2291, 0.4259, 0.3306

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



45.2291, 0.3022, 0.4299



29.2772, 0.3254, 0.2456

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



45.2291, 0.3777, 0.2853



45.2291, 0.3022, 0.4299



45.2291, 0.2545, 0.2321

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



45.2291, 0.3022, 0.4299



45.2291, 0.2004, 0.2603



45.2291, 0.3131, 0.2504



45.2291, 0.4389, 0.3792



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.2291, 0.3022, 0.4299



45.2291, 0.2199, 0.3321



45.2291, 0.3131, 0.2504



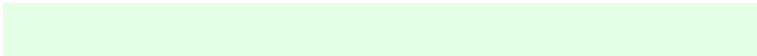
45.2291, 0.4131, 0.3148

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



45.2310, 0.3022, 0.4299



93.5562, 0.3096, 0.3545



51.6554, 0.3623, 0.4239



19.8691, 0.3092, 0.3579



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



45.2310, 0.3022, 0.4299



79.4088, 0.3002, 0.4555



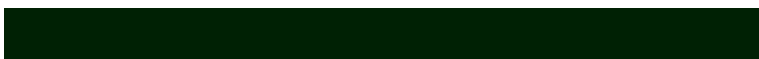
46.3859, 0.2787, 0.3727



11.2763, 0.3101, 0.3501



25.4096, 0.2976, 0.5912



1.1040, 0.2899, 0.5636



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



29.2772, 0.3254, 0.2456



46.5303, 0.3286, 0.2290



27.9023, 0.3671, 0.2897



10.2280, 0.3154, 0.3087



9.5285, 0.3501, 0.1702



0.4172, 0.3428, 0.1662



# Previews

## White Background



This preview shows how the Yxy color 45.2291, 0.3022, 0.4299 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.2291, 0.3022, 0.4299 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

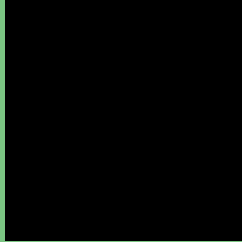
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.2291, 0.3022, 0.4299**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.2291, 0.3022, 0.4299.



This preview shows how white text looks on a background with the Yxy color 45.2291, 0.3022, 0.4299.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

45.2291, 0.3022, 0.4299

### Protanopia

44.6083, 0.3729, 0.4009

### Deuteranopia

44.6050, 0.3809, 0.3727



## Tritanopia

45.0392, 0.2640, 0.3081

# Trichromacy



**Original Color**

45.2291, 0.3022, 0.4299

**Protanomaly**

44.4198, 0.3436, 0.4119

**Deuteranomaly**

43.8287, 0.3488, 0.3921

**Tritanomaly**

44.7868, 0.2777, 0.3492

# Monochromacy



**Original Color**

45.2291, 0.3022, 0.4299

**Achromatopsia**

38.1326, 0.3127, 0.3290

**Achromatomaly**

40.2282, 0.3085, 0.3644

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.2291, 0.3022, 0.4299 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(122, 196, 130)` looks like.

```
.text, #text, p{  
    color:rgb(122, 196, 130)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(122, 196, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 196, 130) }
```

## Border

The CSS property to change the border of an element to Yxy 45.2291, 0.3022, 0.4299 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(122, 196, 130) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(122, 196, 130) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(122, 196, 130)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 196, 130); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 196, 130);  
box-shadow:4px 4px 4px 4px rgb(122, 196,  
130) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.2291, 0.3022, 0.4299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 196, 130) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(122,  
196, 130) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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